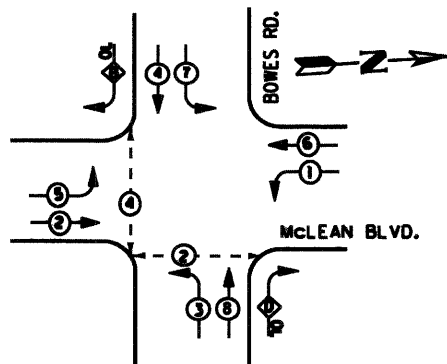


# CONTROLLER SEQUENCE



## LEGEND

- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- OVERLAP

\* NUMBER REFERS TO ASSOCIATED PHASE

## PHASE DESIGNATION DIAGRAM

| OVERLAP LETTER | PERMISSIVE PHASE | PROTECTED PHASE |
|----------------|------------------|-----------------|
| B              | 4                | 5               |
| D              | 8                | 1               |

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASE 4+2

# CABLE PLAN LEGEND

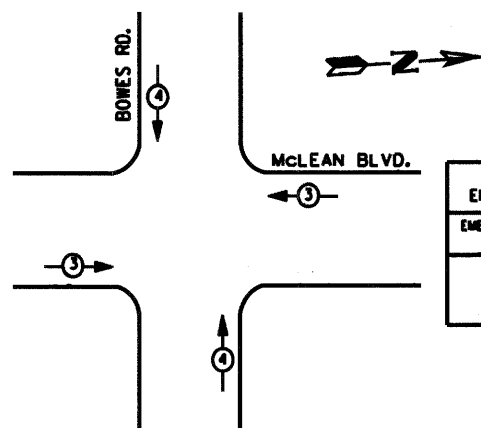
EXISTING PROPOSED

- 8" (200mm) TRAFFIC SIGNAL SECTION
- 12" (300mm) TRAFFIC SIGNAL SECTION
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
- CONTROLLER CABINET
- SERVICE INSTALLATION
- TELEPHONE CONNECTION
- MAGNETIC DETECTOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- PUSHBUTTON DETECTOR
- VEHICLE DETECTOR, INDUCTION LOOP
- VIDEO DETECTOR

EXISTING PROPOSED

- SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
- RAILROAD CONTROL CABINET
- ILLUMINATED SIGN, L.E.D. "NO LEFT TURN"
- ILLUMINATED SIGN, L.E.D. "NO RIGHT TURN"
- GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).
- GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
- GROUND ROD AT ELECTRIC SERVICE INSTALLATION
- GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
- FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F

# EMERGENCY VEHICLE PREEMPTION SEQUENCE

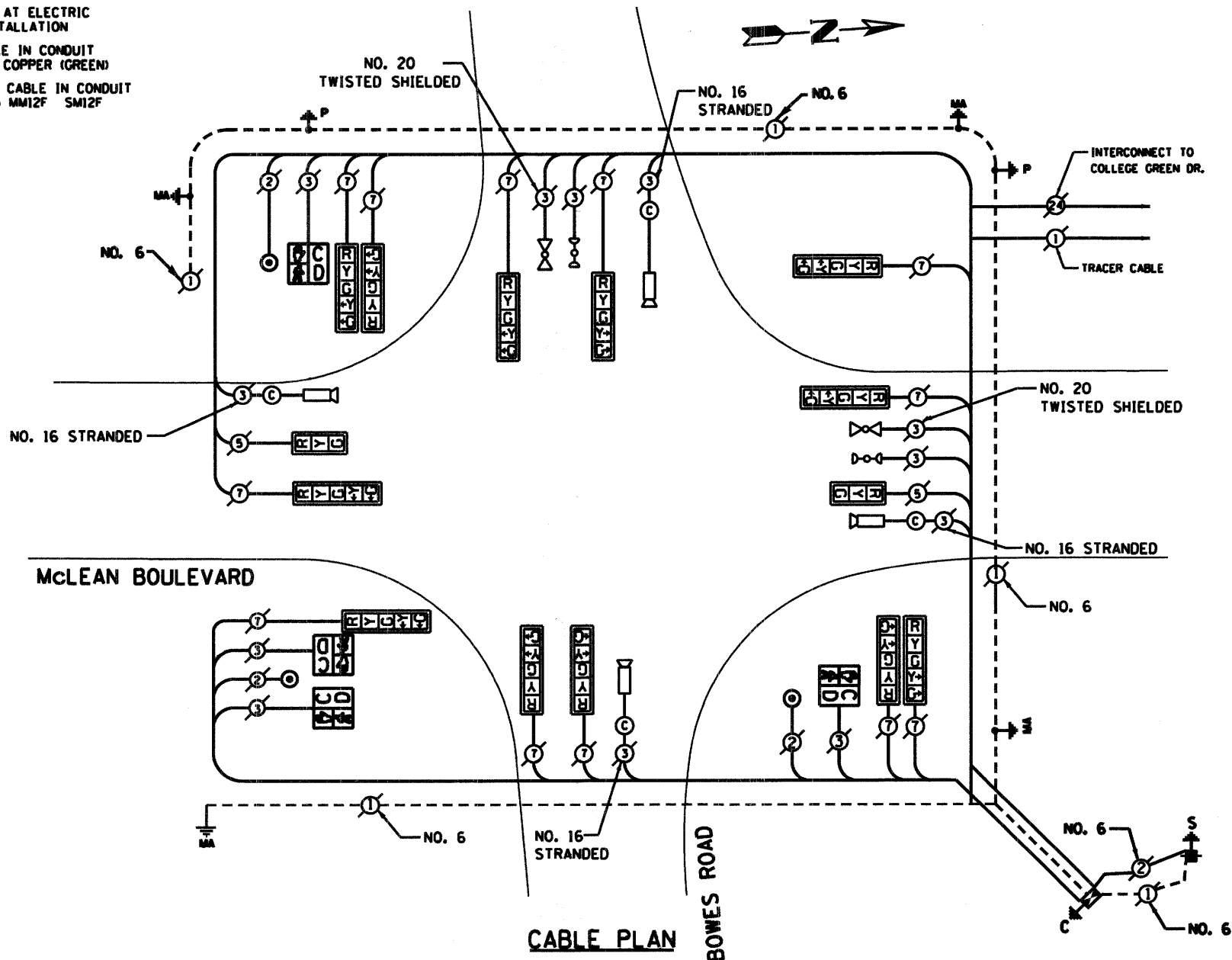


| PROPOSED EMERGENCY VEHICLE PREEMPTORS |          |
|---------------------------------------|----------|
| EMERGENCY VEHICLE PREEMPTOR           | MOVEMENT |
| 3                                     | ← →      |
| 4                                     | ↑ ↓      |

## NOTE:

EQUIPMENT GROUND CONDUCTOR (GREEN COLOR CODED) SPLICE TO FRAME AND COVER IS REQUIRED FOR ALL HANDHOLES OR DOUBLE HANDHOLES THAT CARRY SIGNAL CABLES AND SERVICE CABLES.

| FOUNDATION (DEPTH) | FT. (mm) | CABLE SLACK      | FT. (mm)  | VERTICAL          | FT. (mm)   |
|--------------------|----------|------------------|-----------|-------------------|------------|
| TYPE A - POST      | 4 (1.2)  | HANDHOLE         | 6.5 (2.0) | ALL FOUNDATIONS   | 3.5 (1.0)  |
| D - CONTROLLER     | 4 (1.2)  | DOUBLE HANDHOLE  | 13 (4.0)  | MAST ARM (L) POLE | 20' x 1-2" |
| E - M. ARM POLE    | 2 (0.6)  | SIGNAL POST      | 2 (0.6)   | BRACKET MOUNTED   | 13 (4.0)   |
| 24" (600mm)        | 10 (3.0) | CONTROLLER CAB.  | 1 (0.3)   | PED. PUSHBUTTON   | 4 (1.2)    |
| 30" (750mm)        | 15 (4.6) | FIBER OPTIC      | 13 (4.0)  | ELECTRIC SERVICE  | 13.5 (4.1) |
|                    |          | ELECTRIC SERVICE | 1 (0.3)   | SERVICE TO GROUND | 13.5 (4.1) |
|                    |          | GROUND CABLE     | 1 (0.3)   | POST MOUNTED      | 6 (1.8)    |



| TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS |           |                        |               |           | TOTAL WATTAGE |
|---|-----------|------------------------|---------------|-----------|---------------|
| TYPE  | NO. LAMPS | WATTAGE (INCANDESCENT) | WATTAGE (LED) | OPERATION |               |
| SIGNAL (RED)  | 14        | 175                    | 17            | 0.50      | 118.00        |
| SIGNAL (YELLOW)   | 14        | 175                    | 25            | 0.25      | 87.50         |
| SIGNAL (GREEN)  | 14        | 175                    | 15            | 0.25      | 52.50         |
| ARROW   | 24        | 175                    | 12            | 0.10      | 28.80         |
| PED. SIGNAL   | 4         | 90                     | 25            | 1.00      | 100.00        |
| CONTROLLER  | 100       | 100                    | 1.00          | 100.00    |               |
| ILLUM. SIGN   | 84        | 84                     | 0.05          |           |               |
| FLASHER   |           |                        |               | 0.50      |               |
| TOTAL =   |           |                        |               |           | 487.8         |

ENERGY COSTS TO:  
KANE COUNTY DEPARTMENT OF TRANSPORTATION  
41001 Burlington Road  
St. Charles, IL 60155  
CONTACT: MIKE LYNCH  
PHONE: (847) 816-5331  
COMPANY: COM. EDISON

| FILE NAME  | USER NAME | DESIGNED | REVISED |
|------------|-----------|----------|---------|
| FILE#      | USER#     | PSL      | ---     |
| PLOT SCALE | SCALE#    | CHECKED  | REVISED |
| PLOT DATE  | DATE#     | DATE     | REVISED |

| DESIGNED | REVISED |
|----------|---------|
| PSL      | ---     |
| CHECKED  | REVISED |
| PSL      | ---     |
| DATE     | REVISED |
| 11/22/08 | ---     |

KANE COUNTY  
DIVISION OF TRANSPORTATION

McLEAN BLVD / BOWES ROAD  
CABLE PLAN

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

| F.A.U. RTE.  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|----------------|--------|--------------|-----------|
| 2509         | 08-00099-02-01 | KANE   | 33           | 10        |
| STA. TO STA. |                |        |              |           |

CONTRACT NO. 63125